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Contains No CBI

90-89000622

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Comprehensive Assessment Information Rule

REPORTING FORM

When completed, send this form to:

Document Processing Center Office of Toxic Substances, TS-790 U.S. Environmental Protection Agency 401 M Street, SW Washington, DC 20460 Attention: CAIR Reporting Office

For Agency Use Only:						
Date of Receipt:						
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Docket Number:

		SECT	CION 1	GENERA	L MANUI	FACTUR	ER, I	MPORTE	ER, AN	ND PR	OCESSO	R INF	'ORMA'	TION		
PART	A G	ENERAL	REPOR	TING IN	FORMAT:	ION										
1.01		=		ive Ass												51 5 1
CBI	COM	pleted	l in r∈	sponse	to the	reder	ат ке	giste	r Not:	ice o	· L • • • •			day	_1 (<u>.</u> 2	ear
[_]	a.	If a	Chemic	al Abst	racts	Servic	e Num	ber (CAS No	o.) i	s prov	/ided	in t	he <u>Fed</u>	leral	
		Regis	ster, l	ist the	CAS N	o	• • • •	• • • • •	• • • • •	[3	<u> </u>	<u>513</u> 1	313	71-[<u>8</u>	141	-[9]
	b.	eithe	er (i)	al subs the che il subst	mical :	name,	(ii)	the m	ixtur	e nam	e, or	(iii)	the	gister trade	, li nam	st e of
		(i)	Chemi	cal nam	e as l	isted	in th	e rul	e				N	<u>A</u>		
		(ii)		of mixt												
		(iii)) Trade	name a	s list	ed in	the r	ule .	• • • • •				N	A		
	c.	If a the c	chemic categor	al cate y as li on which you are	gory is sted in	s prov n the under	vided rule,	in the	e <u>Fed</u> chemid	eral cal s egory	Regisubstant, and	ter, race CA	epor AS No chemi	t the you cal na	are	
		Name	of cat	egory a	s list	ed in	the r	ule .					N	A	,	
				chemica]_]	-[_]
		Name	of che	emical s	ubstan	ce	• • • • •	••••	• • • • •	··· -			N	A		,
1.02	Ide	entify	your 1	eportin	g stat	us und	ler CA	IR by	circ	ling	the a	ppropr	iate	respo	nse(s).
CBI	Man	ufactu	ırer		• • • • • •	• • • • •	• • • • •	• • • • •	• • • • •					• • • • •		1
[_]	Imp	orter	• • • • •		• • • • • •		• • • • •	• • • • •	• • • • •	• • • • •				• • • • • •	• • • •	2
	Pro	cessor	Ð	• • • • • •		• • • • •	· • • • •		• • • • •	• • • • •	• • • • •		• • • •			(
	X/F	manui	facture	er repor	ting f	or cus	tomer	who :	is a	proce	ssor					4
	X/F	proce	essor 1	reportin	g for	custon	ner wh	o is	a pro	cesso	r					5
[_]	Mark	k (X) 1	this bo	ox if yo	u atta	ch a c	contin	uatio	n she	et.						

1.03	Doe in	s the	e substance you are reporting on have an "x/p" designation associate above-listed Federal Register Notice?	ed with it
<u>CBI</u>			Go to que	
·—-	No	• • • • •		stion 1.0
1.04 CBI	a.	under Circl	you manufacture, import, or process the listed substance and distriber a trade name(s) different than that listed in the Federal Registerle the appropriate response.	r Notice?
[_]	6			_
	b.	Check	k the appropriate box below:	
		[_]	You have chosen to notify your customers of their reporting oblig	ations
			Provide the trade name(s)	
		[_]	You have chosen to report for your customers	
		[]	You have submitted the trade name(s) to EPA one day after the eff date of the rule in the <u>Federal Register</u> Notice under which you a reporting.	
1.05			uy a trade name product and are reporting because you were notified g requirements by your trade name	
CBI	Tra	de nam	me Conathane EN-9 OZR Part A	
\ <u> </u>	Is	the tr	rade name product a mixture? Circle the appropriate response.	
(Yes)	•••••••••••••••••••••••••••••••••••••••	
	No	• • • • •		• • • • • • • •
1.06			ation The person who is responsible for the completion of this for certification statement below:	orm must
<u>CBI</u>			y certify that, to the best of my knowledge and belief, all informa on this form is complete and accurate."	tion
	Th	nomas	NAME SIGNATURE 8/3	1/89 SIGNED
	Se	enior	TITLE (603) 885-4556 TELEPHONE NO.	
[_] 1	lark	(X) t	this box if you attach a continuation sheet.	

1.07 <u>CBI</u> [_]	Exemptions From Reporting If you have provided EPA or another Federal agency with the required information on a CAIR Reporting Form for the listed substance within the past 3 years, and this information is current, accurate, and complete for the time period specified in the rule, then sign the certification below. You are required to complete section 1 of this CAIR form and provide any information now required but not previously submitted. Provide a copy of any previous submissions along with your Section 1 submission.								
	"I hereby certify that, to the best of my knowledge and belief, all information which I have not included in this CAIR Reporting Form hat to EPA within the past 3 years and is current, accurate, and complete period specified in the rule."	as been submitte							
	Not Applicable SIGNATURE	DATE SIGNED							
	TITLE TELEPHONE NO.	DATE OF PREVIOUS							
<u>CBI</u>	"My company has taken measures to protect the confidentiality of the and it will continue to take these measures; the information is not been, reasonably ascertainable by other persons (other than governments using legitimate means (other than discovery based on a showing of a judicial or quasi-judicial proceeding) without my company's consert information is not publicly available elsewhere; and disclosure of would cause substantial harm to my company's competitive position."	and has not ent bodies) by special need in it; the the information							
	TITLE SIGNATURE () TELEPHONE NO.	DATE SIGNED							
	Mark (X) this box if you attach a continuation sheet.								

PART	B CORPORATE DATA
1.09	Facility Identification
<u>CBI</u>	Name [S]A]N]D]E]R]S]]A]S]S]O]C]I]A]T]E]S]=]MA]N]T]]]] Address []]O]S]O]]P]E]R]]M]E]T]E]R]]O]A]D]A]D]]]]]]
	(MIAIZICIAIEISITEIRILILILILILILILILILILILILILILILILILILI
	[<u>[]]</u> [<u>[]]</u> [<u>[]]</u> [<u>]]</u> [<u>]</u>] [<u>]</u>] [<u>]</u>] [<u>]</u>]
	Dun & Bradstreet Number [0]0]-[8]2]4]-[2]0]6]7 EPA ID Number [0]0]7]0]7]9]0]4[5] Employer ID Number [2]0]2]3]0]8[7]2 Primary Standard Industrial Classification (SIC) Code [3]6]7]2 Other SIC Code [1]1]1 Other SIC Code [1]1]1
1.10	Company Headquarters Identification
<u>CBI</u>	Name [S]A]NIDIEIRISI AISISIOICITIAITIEISI AINIHIQI IIII Address [D]AINITIEISI IIII AINITIEISI A
	[M]H [0]3 0]6]1-[0]8 6]8 Dun & Bradstreet Number

1.11	Parent Company Identification
CBI	Name [Z]OICIKIHIEIEIDI_ICIOIRIPIOIRIAITITIOIM_I_I_I_I_I
[_]	Address [4]5]0]0] PAIRIKI GIRIAINA NAILIBILIVIDI]
	[<u>C]</u>]] [<u>9]]]][<u>9]</u>][<u>0</u>]<u>3</u>]<u>3</u>][</u>
	Dun & Bradstreet Number
1.12	Technical Contact
CBI	Name $[\overline{J}]\overline{A} \underline{m} \underline{E} \underline{S}]$ $[A]$ $[A]$ $[B]$ $[A]$ $[B]$ $[A]$ $[A]$ $[A]$ $[A]$ $[A]$ $[A]$ $[A]$ $[A$
[_]	Title [M]G]RI_IEINIVIIRIOINIMIZINIIIAILI_IAIEIEIAI_IRISI
	Address [9]5] TANALITISTRETTING Street
	(<u> </u>
	[N]H] [O]3]O]6]1][3]0]0]3
	Telephone Number[<u>중</u>] <u>중</u>]-[<u>ヌ</u>] <u>중</u>]-[<u>ヌ</u>] <u>중</u>]-[<u>ヌ</u>] <u>중</u>]-[<u>ヌ</u>]-[<u>х</u> -[<u>х</u>]-[<u>х</u>]-[<u>х</u>]-[<u>х</u> -[<u>х</u>]-[<u>х</u> -[<u>х</u>]-[<u>х</u>]-[<u>х</u> -[<u>х</u>]-[<u>х</u>]-[<u>х</u> -[<u>х</u> -[
1.13	This reporting year is from
[_]	Mark (X) this box if you attach a continuation sheet.

Mailing Address		
Mailing Address	1.14	
Street	CBI	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
Employer ID Number Date of Sale Contact Person []	[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
Employer ID Number Date of Sale		
Date of Sale		$\begin{bmatrix} - \\ - \end{bmatrix} = \begin{bmatrix} - $
Contact Person []]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]		Employer ID Number
Telephone Number		Date of Sale
1.15 Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer: Not Applicable CBI Name of Buyer [Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
CBI Name of Buyer		Telephone Number
Mailing Address	1.15	
Street	CBI	Name of Buyer [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[]] []]]]]] [] []]]]] [] [] []] [[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
Employer ID Number []]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]		[_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1_1
Employer ID Number []]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]		[_]_] [_]_]_]_]_][_]]_]_]_]]]
Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]		
Telephone Number		Date of Purchase
Telephone Number		Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
Mark (X) this box if you attach a continuation sheet.		
Mark (X) this box if you attach a continuation sheet.		
Mark (X) this box if you attach a continuation sheet.		
Mark (X) this box if you attach a continuation sheet.		
	[-1	Mark (X) this box if you attach a continuation sheet.

.16 :BI	For each classification listed below, state the quantity of the listed substance that was manufactured, imported, or processed at your facility during the reporting year. Classification Quantity (kg/yr)
	Classification
	Manufactured
	Imported
	Processed (include quantity repackaged)
	Of that quantity manufactured or imported, report that quantity:
	In storage at the beginning of the reporting year
	For on-site use or processing
	For direct commercial distribution (including export)
	In storage at the end of the reporting year
	Of that quantity processed, report that quantity:
	In storage at the beginning of the reporting year
	Processed as a reactant (chemical producer)
	Processed as a formulation component (mixture producer)
	Processed as an article component (article producer)
	Repackaged (including export)
	In storage at the end of the reporting year
	<i>(</i> 00 00 00 00 00 00 00 00 00 00 00 00 00
	90-84-000(22

90-890000622

_] Mark	(X)	this	pox	if	you	attach	а	continuation	sheet.
---------	-----	------	-----	----	-----	--------	---	--------------	--------

.17 .BI	or a compon chemical.	ent of a mixture. Di	cance on which you are required to report is a mixture provide the following information for each component aposition is variable, report an average percentage of l formulations.)						
1	c	omponent Name		olier ame	Composition (specify	Average % Composition by Weight (specify precision, e.g., 45% ± 0.5%)			
	Toluene	Disocyanate	Conap	Inc.	NA or				
		-			Total	100%			
						·			
	-								
	•								

2.04	State the quantity of the listed substance that your facility manufactured, imported, or processed during the 3 corporate fiscal years preceding the reporting year in descending order.
CBI	
[_]	Year ending $[\overline{\mathcal{I}}]$ $[\overline{\mathcal{S}}]$ $[\overline{\mathcal{S}}]$ Year
	Quantity manufactured
	Quantity imported
	Quantity processed
	Year ending $[\overline{Q}]\overline{7}$ $[\overline{g}]\overline{6}$ Mo. Year
	Quantity manufactured
	Quantity imported
	Quantity processed kg
	Year ending
	Quantity manufactured
	Quantity imported
	Quantity processed
2.05 CBI	Specify the manner in which you manufactured the listed substance. Circle all appropriate process types.
[_]	Continuous process Not Applicable 1
	Semicontinuous process
	Batch process
[_]	Mark (X) this box if you attach a continuation sheet.

2.06 CBI	Specify the manner in appropriate process t	which you processed trypes.	he listed substance.	Circle all
[_]		:s		
2.07 CBI		name-plate capacity f are a batch manufacture		
[_]		y		kg/y kg/y
2.08 CBI	manufactured, importe	ease or decrease the q d, or processed at any acrease or decrease bas	time after your curre	ent corporate fiscal
[_]		Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg)
	Amount of increase	Not Applicable	Not Applicable	UK
	Amount of decrease	Not Applicable	Not Applicable	<u> </u>
[_]	Mark (X) this box if	you attach a continuat	ion sheet.	

2.09	listed substanc	argest volume manufacturing or processing pr	or processed e number of h	the listed ours per
CBI			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured	Not Ap	plicable
		Processed	<u>uk</u>	<u>UK</u>
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)	Not App	licable
		Manufactured		
		Processed		
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)	Not App	licable
		Manufactured		
		Processed		
2.10 CBI	State the maxim substance that chemical.	um daily inventory and average monthly inventor was stored on-site during the reporting year in	ry of the lis	ted a bulk
[_]		Response not requir	ed for	
	Maximum daily i	nventory	.	kg
	Average monthly	inventory	• •	kg
[_]	Mark (X) this b	ox if you attach a continuation sheet.		

2.11 <u>CBI</u>	the listed substantal tured, imported means the source	t Types List any by stance in concentration, or processed. The see from which the byprothe product (e.g., c	ns greater than 0. source of byproduc oducts, coproducts	<pre>1 percent as it : ts, coproducts, c , or impurities a</pre>	is manufac- or impurities are made or
L <u> </u>	CAS No.	Chemical Name	Byproduct, Coproduct or Impurity ¹	Concentration (%) (specify ± % precision)	Source of By products, Co products, or Impurities
	<u>UK</u>	<u>uk</u>	<u>uk</u>	<u>UK</u>	<u>UK</u>
	B = Byproduct C = Coproduct I = Impurity	ving codes to designat	e byproduct, copro	auet, of impulity	y :

Product Types ¹	b. % of Quantity Manufactured, Imported, or Processed	c. % of Quantity Used Captively On-Site	d. Type of End-Use
	100% Processed	<u> </u>	
•			
<pre>A = Solvent B = Synthetic reactan C = Catalyst/Initiato Sensitizer D = Inhibitor/Stabili Antioxidant E = Analytical reagen F = Chelator/Coagulan G = Cleanser/Detergen</pre>	t M r/Accelerator/ N 0 zer/Scavenger/ t Q t/Sequestrant R t/Degreaser S n modifier/Antiwear T U	<pre>types: = Moldable/Castable = Plasticizer = Dye/Pigment/Color = Photographic/Reprand additives = Electrodeposition = Fuel and fuel add = Explosive chemical = Fragrance/Flavor = Pollution control = Functional fluids = Metal alloy and</pre>	rant/Ink and addit rographic chemical n/Plating chemical ditives als and additives chemicals l chemicals s and additives additives
<pre>agent I = Surfactant/Emulsi J = Flame retardant K = Coating/Binder/Ad</pre>		<pre>= Rheological modi = Other (specify)</pre>	11er

<u>CBI</u>	Expected Product Types Identify all product types which you expect to manufacture import, or process using the listed substance at any time after your current corporate fiscal year. For each use, specify the quantity you expect to manufacture import, or process for each use as a percentage of the total volume of listed substance used during the reporting year. Also list the quantity of listed substance used captively on-site as a percentage of the value listed under column b., and the types of end-users for each product type. (Refer to the instructions for further explanation and an example.)				
	a.	b.	c.	d.	
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users ²	
	NA	MH	<u>NA</u>		
	¹ Use the following cod A = Solvent		uct types: L = Moldable/Castabl	e/Rubber and additive	
	<pre>B = Synthetic reactan C = Catalyst/Initiato</pre>	r/Accelerator/ zer/Scavenger/ t t/Sequestrant t/Degreaser n modifier/Antiwear	O = Photographic/Rep and additives P = Electrodepositio Q = Fuel and fuel ad R = Explosive chemic S = Fragrance/Flavor T = Pollution contro U = Functional fluid V = Metal alloy and W = Rheological modi	rant/Ink and additive rographic chemical n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives additives	
	<pre>C = Catalyst/Initiato</pre>	r/Accelerator/ zer/Scavenger/ t t/Sequestrant t/Degreaser n modifier/Antiwear fier hesive and additives	<pre>N = Dye/Pigment/Colo 0 = Photographic/Rep and additives P = Electrodepositio Q = Fuel and fuel ad R = Explosive chemic S = Fragrance/Flavor T = Pollution contro U = Functional fluid V = Metal alloy and W = Rheological modi X = Other (specify)</pre>	rant/Ink and additive rographic chemical n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives additives	

	a.	b .	c. Average %	d.
			Composition of	
	Product Type ¹	inal Product's nysical Form	Listed Substance in Final Product	Type of End-Users ³
	NA -	NA	A NA	
	¹ Use the following codes	to designate prod	luct types:	
	A = Solvent		L = Moldable/Castabl	e/Rubber and addi
	<pre>B = Synthetic reactant</pre>		M = Plasticizer	
	C = Catalyst/Initiator/	Accelerator/	N = Dye/Pigment/Colo	
	Sensitizer		0 = Photographic/Rep	prographic chemica.
	D = Inhibitor/Stabilizer	c/Scavenger/	and additives	/D1 . 6 d h d
	Antioxidant		P = Electrodeposition	
	E = Analytical reagent	7 -	Q = Fuel and fuel ad	
	F = Chelator/Coagulant/S		<pre>R = Explosive chemic S = Fragrance/Flavor</pre>	
	<pre>G = Cleanser/Detergent/i H = Lubricant/Friction n</pre>			
		nodifier/Antiwear	U = Functional fluid	
	agent I = Surfactant/Emulsifie	ar.	V = Metal alloy and	
	J = Flame retardant	2 .	W = Rheological modi	
	K = Coating/Binder/Adhes	sive and additives		
	² Use the following codes			cal form:
	A = Gas		stalline solid	
	B = Liquid	F3 = Gran		
	C = Aqueous solution	F4 = 0the	er solid	
	D = Paste	G = Gel	(
	E = Slurry F1 = Powder	H = Othe	er (specify)	
	³ Use the following codes	to designate the	type of end-users:	
	I = Industrial	CS = Cons		
	CM = Commercial	n = Othe	er (specify)	

liste	e all applicable modes of transportation used to delive d substance to off-site customers. Not $H_{ m pp}$	er bulk si	hipments of GC	
Truck	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1
Pipel	ine			4
Plane				5
Other	(specify)	• • • • • • •		6
or pr	epared by your customers during the reporting year for	ce used by use unde	y your cust r each cate	tomers
Categ	ory of End Use			
i.	Industrial Products			
	Chemical or mixture	Not	App.	_ kg/yr
	Article		1 ,%	_ kg/yr
ii.	Commercial Products			
	Chemical or mixture	Not	App.	_ kg/yr
•	Article	11.	1,	_ kg/yr
iii.	Consumer Products			
	Chemical or mixture	Not	App.	_ kg/yr
	Article	, 1	`	_ kg/yr
iv.	Other			
	Distribution (excluding export)	Not	App	_ kg/yr
	Export		3	_ kg/yr
		_		_ kg/yr
		4.3	"	_ kg/.yr
				A
Mark	(X) this box if you attach a continuation sheet.			
	Truck Railc Barge Pipel Plane Other Custo or pr of en ii.	Truck Railcar Barge, Vessel Pipeline Customer Use Estimate the quantity of the listed substant or prepared by your customers during the reporting year for of end use listed (i-iv). Category of End Use i. Industrial Products Chemical or mixture Article ii. Commercial Products Chemical or mixture Article iii. Consumer Products Chemical or mixture Article iv. Other Distribution (excluding export) Export Quantity of substance consumed as reactant	Truck Railcar Barge, Vessel Pipeline Customer Use Estimate the quantity of the listed substance used by or prepared by your customers during the reporting year for use under of end use listed (i-iv). Category of End Use i. Industrial Products Chemical or mixture Article ii. Commercial Products Chemical or mixture Article iii. Consumer Products Chemical or mixture Article iv. Other Distribution (excluding export) Export Quantity of substance consumed as reactant Unknown customer uses Wof Applicac. Not Appl	Truck Railcar Barge, Vessel Pipeline Other (specify) Customer Use — Estimate the quantity of the listed substance used by your custor prepared by your customers during the reporting year for use under each cate of end use listed (i-iv). Category of End Use i. Industrial Products Chemical or mixture Article ii. Commercial Products Chemical or mixture Article iii. Consumer Products Chemical or mixture Article iv. Other Distribution (excluding export) Export Quantity of substance consumed as reactant Unknown customer uses

Specify the quantity purchased and the average price processor for each major source of supply listed. Product trades the average price is the market value of the product substance. Source of Supply The listed substance was manufactured on-site. The listed substance was transferred from a different company site. The listed substance was purchased directly from	es are treated as	purchases.
The listed substance was manufactured on-site. The listed substance was transferred from a different company site.	•	(\$/kg)
The listed substance was transferred from a different company site.	NA NA	NA
different company site.	1/A	
The listed substance was numbered directly from		NA
a manufacturer or importer.	UK	UK
The listed substance was purchased from a distributor or repackager.	NA	NA
The listed substance was purchased from a mixture producer.	NA_	NA
Truck Railcar Barge, Vessel Pipeline		
	The listed substance was purchased from a mixture producer. Circle all applicable modes of transportation used to your facility. Truck Railcar Barge, Vessel Pipeline	The listed substance was purchased from a mixture producer. Circle all applicable modes of transportation used to deliver the lister your facility.

3.03 CBI	a.	Circle all applicable containers used to transport the listed substance to facility.	your
[_]		Bags	1
		Boxes	2
		Free standing tank cylinders	
		Tank rail cars	
		Hopper cars	5
		Tank trucks	
		Hopper trucks	
		Drums	
		Pipeline	
		Other (specify) quart Coms. Inside baxes.	6 0
		other (specify) Characters.	
	_		791
	ъ.	If the listed substance is transported in pressurized tank cylinders, tank	
	ъ.	If the listed substance is transported in pressurized tank cylinders, tank	
	ъ.	If the listed substance is transported in pressurized tank cylinders, tank cars, or tank trucks, state the pressure of the tanks. Not Applica	上化 mmHg
	b.	If the listed substance is transported in pressurized tank cylinders, tank cars, or tank trucks, state the pressure of the tanks. Not Applica Tank cylinders Tank rail cars	上化 mmHg mmHg
	b.	If the listed substance is transported in pressurized tank cylinders, tank cars, or tank trucks, state the pressure of the tanks. Not Application tank cylinders	上化 mmHg mmHg
	b.	If the listed substance is transported in pressurized tank cylinders, tank cars, or tank trucks, state the pressure of the tanks. Not Applica Tank cylinders Tank rail cars	上化 mmHg mmHg
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	b.	If the listed substance is transported in pressurized tank cylinders, tank cars, or tank trucks, state the pressure of the tanks. Not Applica Tank cylinders Tank rail cars	上化 mmHg mmHg

3.04 <u>CBI</u>	of the mixture, the name	of its supplier(s) ion by weight of the	orm of a mixture, list the or manufacturer(s), an est e listed substance in the matter year.	imate of the
	Trade Name Conathane AV-9 OZR (Part A)	Supplier or Manufacturer Conap, Inc.	Average % Composition by Weight (specify ± % precision)	Amount Processed (kg/yr)
	OZR (Part H)			
				

[] Mark (X) this box if you attach a continuation sheet.

3.05 CBI	State the quantity of the listed substance used as a raw material during the reporting year in the form of a class I chemical, class II chemical, or polymer, and the percent composition, by weight, of the listed substance.				
(<u> </u>	Class I chemical	Quantity Used (kg/yr)	% Composition by Weight of Listed Sub- stance in Raw Material (specify ± % precision ### A Precision #### A Precision ###################################		
	Class II chemical	Not App.	Not App.		
	-\$ Polymer	Not App.	Not App.		

	S	ECTION 4	PHYSICAL/CHEMI	CCAL PROPERTIES	
Gener	al Instructions:				
If yo 4 tha	u are reporting on a m t are inappropriate to	ixture as mixtures	defined in the by stating "Na	e glossary, reply to que A mixture."	estions in Section
notic	uestions 4.06-4.15, if e that addresses the i mile in lieu of answer	nformation	ı requested, y	warning statement, labe ou may submit a copy or ch it addresses.	el, MSDS, or other reasonable
PART	A PHYSICAL/CHEMICAL D	ATA SUMMAI	RY		
CBI	substance as it is ma substance in the fina import the substance,	<pre>nufacture l product or at the</pre>	l, imported, o form for manu	or 1 technical grade(s) or processed. Measure the facturing activities, at gin to process the subst	t the time you
[_],	'NA Mixture'	Mani	ıfacture	Import	Process
	Technical grade #1		% purity	% purity	% purity
	Technical grade #2		% purity	% purity	% purity
	Technical grade #3		% purity	% purity	% purity
	¹ Major = Greatest qua	ntity of	listed substan	ce manufactured, importe	ed or processed.
4.02	substance, and for ever an MSDS that you deve	ery formuloped and ether at	lation contain an MSDS devel	afety Data Sheet (MSDS) ing the listed substance oped by a different sour has been submitted by o	e. If you possess rce, submit your
	(Yes)	• • • • • • • •			(3
	No		• • • • • • • • • • • • •		
	Indicate whether the	MSDS was	developed by y	our company or by a diff	ferent source.
	Another source)				(3

[__] Mark (X) this box if you attach a continuation sheet.

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CONAP, INC. 1405 Buffalo Street Olean, New York 14760 716-372-9650

======= MATERIAL SAFETY DATA SHEET ====== NOTE: This form is to be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Blank spaces are not permitted. DATE: Q2/10/87 CONATHANE EN-9 PART A TRADE NAME: Chemical Name, common name: Complex Mixture; Polyurethane Prepolymer =========== II. HAZARDOUS INGREDIENTS ======================= ACGIH(TLV) OSHA(PEL) Chemical Names CAS No. Toluene Diisocyanate 584-84-9 NA .005ppm TWA .02ppm Specific Gravity (H20=1) .97 Boiling Point: ND Vapor Pressure,mm Hg: ND Vapor Density (air=1): ND Melting Pt./Range: ND Evaporation rate (Ether=1): ND Solubility in Water: REACTS Physical State: LIQUID Percent Volatile by Volume: Negligible Appearance and Odor: Liquid; Sharp pungent (odor threshold greater than TLV) > 300°F PMCC Flashpoint, F (Method): LEL ND UEL ND Flammable Limits: ND Extinguishing Materials: -XX- Carbon Dioxide -XX- Water Spray -XX- Dry Chemical -XX- Foam -ND- Other: Special Firefighting Procedures/Unusual Fire or Explosion Hazards: Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by fire fighters. During a fire TDI vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. At temperatures greater than 350°F TDI forms carbodiimides with the release of CO2 which can cause pressure build-up in closed containers. Explosive rupture is possible. Therefore, use cold water to cool fire-exposed containers. ========== V. HEALTH HAZARD INFORMATION ========== ACUTE TOXICITY (Routes of entry) Inhalation: LC50. (4 hr.): Range 12.7 to 66 ppm for 1-4 hr. (Rat) on TDI. Ingestion: ORAL, LD50 5800 mg/kg (Rats) Rances of the second of the following spirit spice of Eye Contact: Strongly irritating (Rabbits) OECD Guidelines. Skin Contact: Corrosive to the skin (Robbits) OECD Guidelines. Skin sensitizer in guinea pigs reported that repeated skin contact with TDI caused respiratory sensitization. Skin Absorption: ND JEROCHEK BUNKETE CHRONIC TOXICITY: Carcinogenicity: --NA-No --X-Yes --X-NTP ------IARC -----Federal OSHA In a DRAFT of a lifetime bioassay, the National Toxicology Program reported that TDI caused an increase in the number of tumors in exposed rats over those counted in non-exposed rats. The TDI was administered by gavage where TDI was introduced into

the stomach through a tube. In lifetime inhalation studies conducted by Hazelton after a Labs for the International Isocyanate Institute, TDI did NOT demonstrate carcinogenic leader activity in rats or mice.

Target Organ Affected: No specific information available, the Affected to the specific information available, the Affected to the specific information available.

21

Effects of Overexposure:

INHALATION: Inhalation of TDI vapors at concentrations above allowable limits can produce irritation of the mucous membranes in the respiratory tract resulting in running nose, sore throat, productive cough and a reduction of lung function (breathing obstruction). Extensive exposure to concentrations well above these limits could lead to bronchitis, bronchospasm (a sudden involuntary contraction) and, in rare cases, pulmonary edema (fluid in lungs). These effects are usually reversible. Another type of response is hyperreactivity or hypersensitivity, in which persons, (as a result of a previous repeated overexposure or large single dose), can respond to small TDI concentrations at levels well below the .02 ppm. Symptoms could be immediate or delayed and include chest tightness, wheezing, cough, shortness of breath or asthmatic attack. Hypersensitivity pneumonitis (with similar respiratory symptoms and fever which has been delayed) has also been reported.

EYES: Liquid, vapors or aerosols are severely irritating to the eyes and can cause tears. Corneal injury can occur which can be slow to heal; however damage is usually reversible.

SKIN: TDI reacts with skin protein and tissue moisture and can cause localized irritation as well as discoloration. Prolonged contact could produce reddening, swelling, or blistering and, in some individuals, skin sensitization resulting in dermatitis.

INGESTION: Ingestion could result in irritation and some corrosive action in the mouth, stomach tissue and digestive tract.

Medical Conditions Aggravated By Exposure: Existing respiratory conditions

FIRST AID: EMERGENCY PROCEDURES

EYE CONTACT: Flush with clean, lukewarm water (low pressure) for at least 15 minutes, occasionally lifting eyelids, and obtain medical attention. Refer individual to an opthalmologist for immediate follow-up.

SKIN CONTACT: Remove contaminated clothing. Wash effected areas thoroughly with soap or tincture of green soap and water. Wash contaminated clothing thoroughly before reuse. For severe exposures, get under safety shower, remove clothing under shower, get medical attention, and consult physician.

INHALATION: Move to an area free from risk of further exposure. Administer oxygen or artificial respiration as needed. Obtain medical attention. Asthmatic-type symptoms may develop and be immediate or delayed up to several hours.

INGESTION: Do not induce vomiting. Give 12 fl.oz. of milk or water to drink. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Consult physician.

Recommendations to Physician:

EYES: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation frequently. Workplace vapors have produced reversible corneal epithelial edema impairing vision.

SKIN: Treat as contact dermatitis. If burned, treat as thermal burn. Last doctrottelled in which RESPIRATORY: Treatment is essentially symptomatic. PARORY: Treatment is essentially symptomatic.

*======================================	===== VI. REACTI	VITY DATA =====		:======
	XX-Stable	-NAUnstable		
Conditions to Avoid:	Temperatures higher	r than recommended	in product literat	ure.
Incompatibility (mate	rials to avoid): Wate	er, short chain alcol	nols, amines	
Hazardous Decompos	sition Products - P	ly heat and fire.	carbon diavida	b

monoxide, oxides of nitrogen and traces of hydrogen cyanide, TDI. Hazardous Polymerization: NA-May Occur

X-Will Not Occur

Conditions to Avoid: ND

======== VII. SPILL, LEAK AND DISPOSAL PROCEDURES ===========

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Consult Section VIII for proper protective equipment. Cover the spill with sawdust, vermiculite, Fuller' earth or other absorbant material. Pour decontamination solution over the spill area and allow to react for at least 10 minutes. Collect the material in open top containers and add additional amounts of decontamination solution. containers to a safe place, cover loosely, and allow to stand for 24 to 48 hours. Wash down spill area with decontamination solutions. Decontamination solutions: non-ionic surfactant Union Carbide's Tergitol TMN-10(20%) and water(80%); or concentrated ammonia (3-8%), detergent (2%) and water (90%). During spill clean-up, a self contained breathing apparatus or air line respirator and protective clothing must be worn. (See Section VIII).

WASTE DISPOSAL METHOD: Dispose according to any local, state, and federal regulations.

========== VIII. SPECIAL HANDLING INFORMATION =============

RESPIRATORY PROTECTION: A positive pressure air-supplied respirator is required whenever TDI concentrations exceed the Short-Term Exposure or Ceiling Limit of .02ppm or exceed the 8 hour Time Weighted Average TLV of 0.005 ppm. supplied respirator must also be worn during spray application, even if exhaust ventilation is used. For non-spray, short-term (less than 1 hour) situations where concentrations are near the TLV, a full face, air-purifying respirator equipped with organic cartridges or cannisters can be used. However, TDI has poor warning properties since the odor at which TDI can be smelled is substantially higher than the 0.02 ppm. Therefore, proper fit and timely replacement of filter elements must be ensured. Observe OSHA regulations for respirator use (29CFR 1910.134).

Local exhaust should be used to maintain levels below the TLV whenever TDI containing material is handled, processed, or spray-applied. At normal room temperatures (70°F) TDI levels quickly exceed the TLV unless properly ventilated. Standard reference sources regarding industrial ventilation (e.g., ACGIH INDUSTRIAL VENTILATION) should be consulted for guidance about adequate ventilation.

PROTECTIVE GLOVES: Chemical resistant gloves (butyl rubber, nitrile rubber, polyvinyl alcohol). However, please note that PVA degrades in water.

EYE PROTECTION: Liquid chemical goggles or full face shield should be worn. Contact lenses should not be worn.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety showers and eyewash stations should be available. Cover as much of exposed skin as possible with appropriate clothing.

WORK PRACTICES, HYGIENIC PRACTICES: Educate and train employees in safe use of product. Follow all label instructions. of Sichala Podá a SH todal incluir ac

IX. SPECIAL PRECAUTIONS ================= HANDLING AND STORAGE: Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspect. OTHER PRECAUTIONS: Avoid contact with eyes and skin. Do not breath the vapors. NAME (print): George C. Karpin SIGNATURE: Hear (Karpin This formulation is subject to change without notice. TITLE: Toxicological and In case of accident use the phone Environmental Coordinator number provided. Date of last revision: 2/10/07 To the best of our knowledge, the information contained herein is accurate and meets all State and Federal guidelines. However, CONAP, INC. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. All materials may present unkown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of the suitability of any material is the sole responsibility of the user. ND = Not Determined NA = Not Applicable AWill. Date Approved: 2/10/87

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
	Yes 1
	No
4.04	For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for
<u>CBI</u>	manufacturing, storage, disposal and transport activities are determined using the final state of the product.

	Physical State				
Activity	Solid	Slurry	Liquid	Liquified Gas	Gas
Manufacture	1	2	3	4	5
Import	1	2	3	4	5
Process	1	2	<u>3</u>	4	5
Store	1	2	3	4	5
Dispose	1	2	3	4	5
Transport	1	2	3	4	5

[_] Mark (X) this box if you attach a continuation sheet.

] Phusical		,	Not	App	ه ۱۱ د	a ble	-
Physical State	• •	Manufacture		• •			
Dust	<1 micron						
	1 to <5 microns						
	5 to <10 microns			-1,0		***************************************	
Powder	<1 micron	<u></u>					
	1 to <5 microns						
	5 to <10 microns		energia energia de la compansión de la comp				
Fiber	<1 micron						
	1 to <5 microns					**************************************	
	5 to <10 microns					*****	
Aerosol	<1 micron	******			alung seise Sales is		
	1 to <5 microns						-
	5 to <10 microns						
	•						

PART	A R	ATE CONSTANTS AND TRANSFORMATION PRODUCTS		
5.01	Ind	licate the rate constants for the following tran	nsformation processes.	
	a.	Photolysis:		
		Absorption spectrum coefficient (peak)	<u>UK</u> (1/M cm) at	nm
		Reaction quantum yield, 6	UK at	nm
		Direct photolysis rate constant, k _p , at		
	b.			
		For ¹ 0 ₂ (singlet oxygen), k _{ox}	UK	1/M h
		For RO ₂ (peroxy radical), k _{ox}		1/M h
	c.	Five-day biochemical oxygen demand, BOD ₅		mg/l
	d.	Biotransformation rate constant:	4	
		For bacterial transformation in water, $k_b \dots$	UK	1/hr
		Specify culture	UK	
	e.	Hydrolysis rate constants:		
		For base-promoted process, k _B	UK	1/M h
		For acid-promoted process, k _A		1/M h
		For neutral process, k _N		1/hr
	f.	Chemical reduction rate (specify conditions)_	UK	
			111/	
	g.	Other (such as spontaneous degradation)	<u> </u>	

$[\overline{}]$ Mark (X) this box if you attach a continuation sheet
--

PART	B P	ARTITION COEFFICIEN	TS				
5.02	a.	Specify the half-l	ife of the	listed subs	tance in the follow	ing media.	
·		<u>Media</u>			Half-life (spec	ify units)	<u>!</u>
		Groundwater			UK		
		Atmosphere			1116		
		Surface water		***************************************	11/		
		Soil			111/		
	b.			e's known tr	ansformation product	ts that ha	ve a half-
	•	CAS No.		Name	Half-life (specify units)		Media
		<u>uK</u>		UK	_ UK	in	UK
	-3					in	
						in	
						in	
5.03		cify the octanol-wa			ent, K _{ow}	UK	at 25°0
5.04		cify the soil-water			, K _d	ИK	at 25°6
5.05	Spe coe	cify the organic car fficient, K _{oc}	rbon-water	partition		UK	at 25°0
5.06	Spe	cify the Henry's La	w Constant	, H	•••••	UK	atm-m³/mole
[_]	Mar	k (X) this box if y	ou attach	a continuati	on sheet.		

	Bioconcentration Factor	Species	<u>Test¹</u>
	<u>uk</u> _	UK	UK
- 			
	¹ Use the following codes to des	signate the type of test:	
	<pre>F = Flowthrough S = Static</pre>		
•			
	-		

6.04 CBI	For each market listed below, state the the listed substance sold or transferr	ed in bulk during the	reporting year.
[_]		Not	Applicable
	Market	Quantity Sold or Transferred (kg/yr)	Total Sales Value (\$/yr)
	Retail sales		
	Distribution Wholesalers		
	Distribution Retailers		
	Intra-company transfer		
	Repackagers		
	Mixture producers		
	Article producers		
	Other chemical manufacturers or processors		
	Exporters		
	Other (specify)		
	·		
6.05 <u>CBI</u>	Substitutes List all known commerci for the listed substance and state the feasible substitute is one which is ecin your current operation, and which reperformance in its end uses.	cost of each substitue conomically and technol	te. A commercially ogically feasible to us
l1	<u>Substitute</u>		Cost (\$/kg)
	UK		<u> </u>
•			
[_]	Mark (X) this box if you attach a cont	inuation sheet.	

SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

General Instructions:

For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

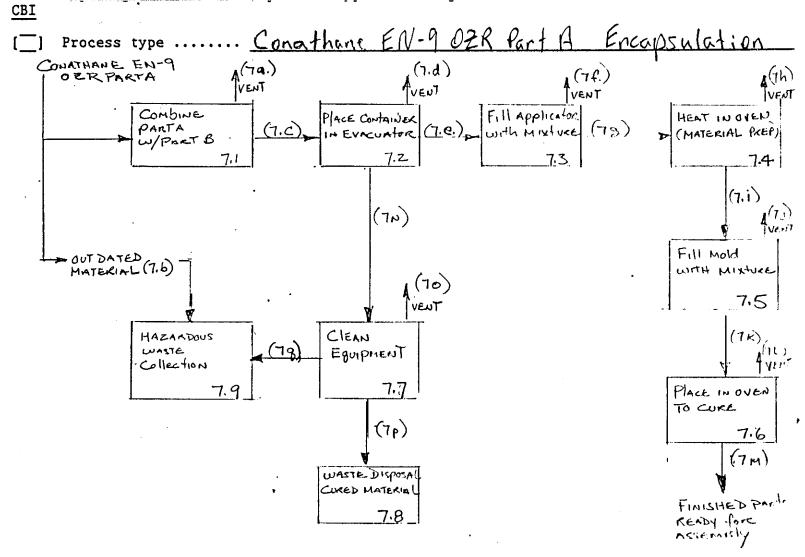
7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

CBI

Conathane Process type CONATHANE EN-9 A(7a.) OER PARTA VENT COMBINE Place ContaiNER Fill Applicator HEAT IN OVEN PARTA (7.e.) with Mixture (MATERIAL PICEP) W/PART B 7.4 (7.i)_[(7]) (UL) OUT DATED MATERIAL (7.6) Fill Mold WITH MIXTURE 7.5 CLEAN HAZAADOUS (78. WASTE EquipMENT collection 7.7 7.9 Place IN OVEN TO CURL (7p) 7.6 (7m) WASTE DISPOSAL CURED MATERIAL FINISHED PART 7.8 READY forc assemisty

[] Mark (X) this box if you attach a continuation sheet.

7.03 In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block.



^[] Mark (X) this box if you attach a continuation sheet.

Process t	ype Conathane	EN-Y OZRA	art H Ecup	sulation
Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Compositi
7.1	802 000	Aubient		Plastic
7.2	EVALUATOR	UK	UK	UK
<u> 7.3</u>	SYRINGE	Ambient	_0	Plastic
7.4	OVEN	150-170°F		Stech
7.5	Syringe	UK	_0	Plastic
7.6	OVEN	150-170°F		Sterce
7.7	cups, syringe.etc.	UK		171.75fic
7.8	cups, syruge etc.	UK	<u> </u>	plastic
7.9	New MATERIAL CLOS SYRWYR	<u>uk</u>		Plastic, ou
7.9		<u> </u>		Plastic, a

[[]__] Mark (X) this box if you attach a continuation sheet.

Process type Process Stream ID	Conathane EN-9	CZR Part A Enco	. a. Jestia
Stream			DECLIMITION.
Code	Process Stream Description	Physical State ¹	Stream Flow (kg/yr)
79	Vent	GU	_UK
<u> 7b</u>	OUT Dated Material	<u> </u>	UK
<u> </u>	Transfer in to evacuator	<u> </u>	UK
7d	Vent	Gu	uk
	Transfer to applicator	Sy	<u> </u>
7+	VENT		UK
<u> 15</u>	Place IN OVER	sy	UK
<u>7h</u>	Vent	Gu	UK
GC = Gas (cor GU = Gas (und SO = Solid SY = Sludge (AL = Aqueous OL = Organic	ndensible at ambient temperature condensible at ambient temperatu or slurry liquid liquid	and pressure) re and pressure)	
	Td Te Th Th Th Th Th Th Th Th Th	To Jens fee in to evacuator The Icans fee to applicator The Vent The Vent The Vent The Vent The Vent The Vent The Vent The Vent The Vent The Vent The Vent The Vent The Vent The Vent The Vent The Vent The Vent The Vent The Vent The Vent The	To Transfer in to evacuator. To Vent Giu Te Transfer to applicator. The Vent Giu The Transfer to applicator. The Vent Giu The Vent Giu

7.05	process block	process stream identified in your flow diagram is provided for more complete it separately for each pr	than one process type	lagram(s). If a e, photocopy this
CBI				
[_]	Process type	Conathane EN-9	OZR Part A	Encapsulation
	Process Stream ID Code	Process Stream Description	Physical State ¹	Stream Flow (kg/yr)
	<u> 7i</u>	Transfer to mold	<u>-Sy</u>	_UI<
	<u></u>	VENT	_GU	UK
	7K	Place IN GUEN	Sy	UK_
	76	VENT	<u> </u>	<u>ir</u>
	_7M	Finished Product	So	UK
	N	waste material	50. Sy	UK
	_76	VENT	<u> </u>	UK
	70	waste Disposal (Curad)		U/=
	7.7	HAZ white Disposal	OLISY	UK
	GC = Gas (con GU = Gas (und SO = Solid SY = Sludge of AL = Aqueous OL = Organic	liquid	nd pressure) and pressure)	
		•		
[_]	Mark (X) this	box if you attach a continuation s	sheet.	

. If a process	e each process stream id block flow diagram is n and complete it separ	provided for mor	re than one proce	ess type, photocopy
CBI instructions	for further explanation	on and an example	≥.)	
[_] Process type	Conatha	ne EN-96	JER Part H	Encapsulation
a.	b.	c.	d.	e.
Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
7A,70,7F	TOI	NA	NH	uK
74,75,74	· · · ·		.,,	J j
70	//		//	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
•				
7 <u>6.7C, 7E</u>	TOI	<u>NA</u>	NA	UB
7 <u>8,7¢, 7£</u> 7G, 7£, 7K	11	<i>I</i> *	11	11
7m	, '		,1	//
7 <u>4,711,79</u>	TOI	NA	NA	UK
7.06 continued be				
	•			
	s box if you attach a c	ontinuation shee	et.	

	•	the definition of additive	
	Additive Package Number	Components of Additive Package	Concentrations (% or ppm)
	1		
		:	
	2		
	•		
	_		
•	<u> </u>		
	4		***************************************
	5	Market State	
		•	
	² Use the following codes to	designate how the concent	ration was determined:
	A = Analytical result E = Engineering judgement/	calculation .	
	³ Use the following codes to	designate how the concentr	ration was measured:
	V = Volume W = Weight		

7.06 (continued)

SECTION 8 RESIDUAL TREATMENT GENERATION, CHARACTERIZATION, TRANSPORTATION, AND MANAGEMENT

General Instructions:

For questions 8.04-8.06, provide a separate response for each residual treatment block flow diagram provided in question 8.01, 8.02 or 8.03. Identify the process type from which the information is extracted.

For questions 8.05-8.33, the Stream Identification Codes are those process streams listed in either the Section 7 or Section 8 block flow diagrams which contain residuals for each applicable waste management method.

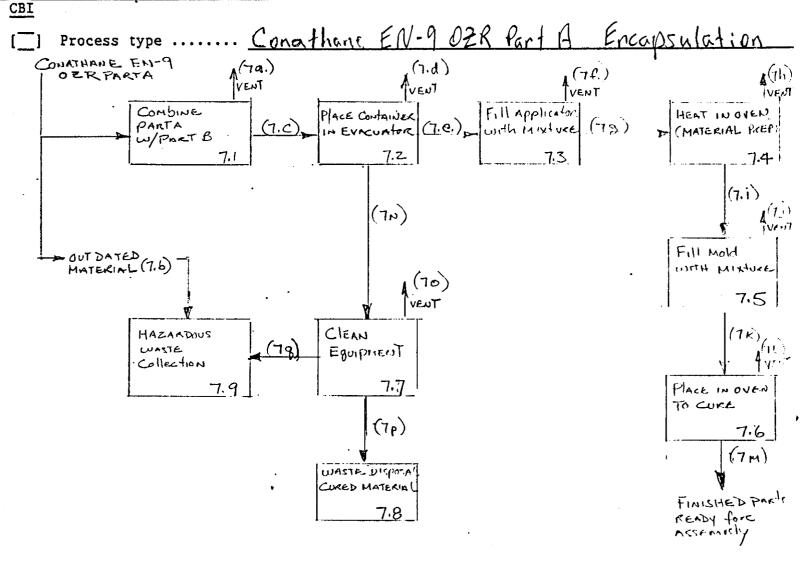
For questions 8.07-8.33, if residuals are combined before they are handled, list those Stream Identification Codes on the same line.

Questions 8.09-8.33 refer to the waste management activities involving the residuals identified in either the Section 7 or Section 8 block flow diagrams. Not all Stream Identification Codes used in the sample answers (e.g., for the incinerator questions) have corresponding process streams identified in the block flow diagram(s). These Stream Identification codes are for illustrative purposes only.

For questions 8.11-8.33, if you have provided the information requested on one of the EPA Office of Solid Waste surveys listed below within the three years prior to your reporting year, you may submit a copy or reasonable facsimile in lieu of answering those questions which the survey addresses. The applicable surveys are: (1) Hazardous Waste Treatment, Storage, Disposal, and Recycling Survey; (2) Hazardous Waste Generator Survey; or (3) Subtitle D Industrial Facility Mail Survey.

[_]	Mark (X)	this	box if	you	attach	a conti	inuation	sheet.	,		•	

8.01 In accordance with the instructions, provide a residual treatment block flow diagram which describes the treatment process used for residuals identified in question 7.01.



	ance with the instructions, provide a residual treatment block cribes the treatment process used for residuals identified in	
[_] Process ty	ype	
	·	
RESIDUALS	PLACED IN DOT CONTRINERS FOR SHIPMENT TO TSDF JUCINERATION	TSDF TRENTMENT
	INCINERIOTIO,	\mathcal{N}
OFF ST	ESIDUALS ARE STORED UNTILL SHIP TE TO A BROKER WHO INTURN HE MATERIAL FOR FINAL TREX	WILL
OR TNC	INERATION. NO ON SITE TREATM	CNT
	INER ATION CCCURES.	

8.05 CBI	diagram process	(s). If a r type, photo	esidual trea	itment block f estion and co	in your residu: low diagram is mplete it sepa: r explanation :	provided for a	or more than on each process
[_]	Process	type	··· Con	athane E	N-9 071	R Part A	Encupsulation
	a.	b.	c.	d.	e.	f.	g.
	Stream ID Code	Type of Hazardous . Waste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) ^{4,5,6}	Other Expected Compounds	Estimated Concen- trations (% or ppm)
	7.6	I,T	OL	TDI	UK	UK	<u> </u>
	7.9-	TT	Sy.cL	TDZ	UK	UK	UK
	Τρ.	ÞΚ	UK	UK	UK	UK	uk_
10, 5,7L	•	UK	-Gu	TOI	UK	UK	UK
 3.05	continue	 ed below					

8.05 (continued)

¹Use the following codes to designate the type of hazardous waste:

I = Ignitable

C = Corrosive

R = Reactive

E = EP toxic

T = Toxic

H = Acutely hazardous

²Use the following codes to designate the physical state of the residual:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

SO = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

[] Mark (X) this box if you attach a continuation sheet.

<u>P</u>	Additive ackage Number		Components of Additive Package	Concentrations (% or ppm)
_	1			
				part labelle described de la companya de la company
	2			
	3			
_	4			
	5			
Α :	e the following = Analytical re = Engineering	esult	esignate how the concentr	ation was determined:
	tinued below			

8.05 (continued)

	Not Applicable following codes to designate how the concentration was	measured:
V = Volu W = Weig		
⁶ Specify below.	the analytical test methods used and their detection l Assign a code to each test method used and list those	imits in the table codes in column e.
Code	<u>Me thod</u>	Detection Li (± ug/l)
1		
2		·
3	·	
4		
5		
6		
	·	

8.06	Characterize each process stream identified in your residual treatment block flow diagram(s). If a residual treatment block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.)							
CBI	Process	type	<u>Conat</u>	hane EN-	9 OZR	Part A	Encapsi	alation
	a.	b.	c.	d.	е	•	f. Costs for	g.
	Stream ID Code	Waste Description Code	Management Method Code ²	Residual Quantities (kg/yr)	of Resi	gement dual (%) Off-Site	Off-Site Management (per kg)	Changes in Management Methods
	7.6	<u>'670</u>	<u>li I</u>	_UK	0	100	UK	uk_
	•							
	7.9	676	11 <u>T</u>	<u>UK</u>		100		<u> </u>
	<u>7p</u>	<u>882</u>	uke	UK		100	UK	UK
	,7 <u>F,74</u> L,70	<u>691</u>	<u>M5</u>	UK			NB	NA
	² Use th	e codes provi	ided in Exhi	ibit 8-2 to d	lesignate	the manage		

WASTE DESCRIPTION CODES

These waste description codes were developed specifically for this survey to supplement the descriptions listed with the RCRA and other waste codes. (These waste description codes are not regulatory definitions.)

WASTE DESCRIPTION CODES FOR HAZARDOUS WASTE DESCRIBED BY A SINGLE RCRA F. K. P. OR U WASTE CODE

A01	Spent	solvent	(F001-F005.	K086)	
400			tioned (Coos	COOC	400

Other organic liquid (F001-F

A03 Still bottom (F001-F005, K086) A04 Other organic studge (F001-F005, K086)

A05 Wastewater or aqueous mixture

A06 Contaminated soil or cleanup residue AUT Other F or K waste, exactly as described*

AO8 Concentrated off-spec or discarded product

A09 Empty containers

A10 Incinerator ash

Solidified treatment residue

Other treatment residue (specify in Facility Notes")

Other untreated waste (specify in "Facility Notes")

INORGANIC LIQUIDS-Waste that is primarily
inorganic and highly fluid (e.g., aqueous), with
low suspended inorganic solids and low organic

801 Aqueous waste with low solvents

802 Aqueous waste with low other toxic ordanics

803 Spent acid with metals

804 Spent acid without metals

805 Acidic aqueous waste

806 Caustic solution with metals but no vanides

807 Caustic solution with metals and cyanides

808 Caustic solution with cyanides but no metais

809 Spent caustic

810 Caustic aqueous waste

B11 Aqueous waste with reactive sulfides

B12 Aqueous waste with other reactives (e.g., explosives)

B13 Other aqueous waste with high dissolved solids

314 Other aqueous waste with low dissolved solids

815 Scrubber water

B16 Leachate

817 Waste liquid mercury

818 Other inorganic liquid (specify in "Facility

INORGANIC SLUDGES—Waste that is primarily inorganic, with moderate-to-high water content and low organic content; pumpable.

819 Lime sludge without metals

820 Lime sludge with metals/metal hydroxide sludge

821 Wastewater treatment sludge with toxic OFFIRE

B22 Other wastewater treatment sludge

823 Untreated plating sludge without cyanides B24 Untreated plating sludge with cyanides

825 Other sludge with cyanides

826 Sludge with reactive suifides

827 Sludge with other reactives

B28 Degressing sludge with metal scale or filings

B29 Air pollution control device sludge (e.g., fly ash, wet scrubber studge)

830 Sediment or lagoon dragout contaminated with organics

B31 Sediment or lagoon dragout contaminated with inorganics only

832 Orilling mud

""Exactly as described" means that the waste matches the description of the RCRA waste code.

Asbestos slurry or sludge 833

834 Chloride or other brine sludge 235 Other inorganic sludge (specify in

'Facility Notes")

INORGANIC SOLIDS—Waste that is primarily inorganic and solid, with low organic content and low-to-moderate water content; not pumpable.

836 Soil contaminated with organics

B37 Soil contaminated with inorganics only

838 Ash, slag, or other residue from incineration of wastes

Other "dry" ash, siag, or thermal 839 residue

840 "Dry" lime or metal hydroxide solids chemically "fixed

B41 "Dry" lime or metal hydroxide solids not "fixed"

842 Metal scale, filings, or scrap

Empty or crushed metal drums or containers

B44 Batteries or battery parts, casings, cores

B45 Spent solid filters or adsorbents

RAG Asbestos solids and debns

847 Metal-cyanide salts/chemicals

RAR Reactive cyanide salts/chemicals

Reactive sulfide salts/chemicals

850 Other reactive salts/chemicals Other metal saits/chemicals

851 852

Other waste inorganic chemicals

R53 Lab packs of old chemicals only

854 Lab packs of debns only

855 Mixed lab packs

Other inorganic solids (specify in Facility Notes")

INORGANIC GASES—Waste that is primarily inorganic with a low organic content and is a gas at atmospheric pressure.

B57 Inorganic gases

ORGANIC LIQUIDS-Waste that is primarily organic and is highly fluid, with low inorganic solids content and low-to-moderate water

858 Concentrated solvent-water solution 859 Halogenated (e.g., chlonnated) solvent

860 Nonhalogenated solvent 861 Halogenated/nonhalogenated solvent mixture

862 Oil-water emulsion or mixture

863 Waste oil

864 Concentrated aqueous solution of other organics

865 Concentrated phenolics

866 Organic paint, ink, lacquer, or varnish

867 Adhesives or expoxies

ARA Paint thinner or petroleum distillates

869 Reactive or polymerizable organic liquid

Other organic liquid (specify in "Facility Notes")

ORGANIC SLUDGES—Waste that is primarily organic, with low-to-moderate inorganic solids content and water content; pumpable.

Still bottoms of halogenated (e.g., chlorinated) solvents or other organic liquids

Still bottoms of nonhalogenated solvents or other organic liquids

B73 Oily sludge

B74 Organic paint or ink sludge

B75 Reactive or polymerizable organics

876 Resins, tars, or tarry studge 877

Biological treatment studge

878 Sewage or other untreated biological siudge

R79 Other organic studge (specify in 'Facility Notes'')

ORGANIC SOLIDS-Waste that is primarily organic and solid, with low-to-moderate inorganic content and water content; not pumpable.

RAO Halogenated pesticide solid

881 Nonhalogenated pesticide solid 882 Solid resins or polymenzed organics

883 Spent carbon

884 Reactive organic solid

885 Empty fiber or plastic containers

888 Lab packs of old chemicals only

887 Lab packs of debris only

888 Mixed lab packs

Other halogenated organic solid 889

Other nonhalogenated organic solid

ORGANIC GASES—Waste that is primarily organic with low-to-moderate inorganic content and is a gas at atmospheric pressure.

891 Organic cases

EXHIBIT 8-2. (Refers to question 8.06(c))

MANAGEMENT METHODS

MANAGEMENT	METHODS
M1 = Discharge to publicly owned	Recovery of solvents and liquid organics
wastewater treatment works	for reuse
M2 = Discharge to surface water under	1SR Fractionation
NPDES	2SR Batch still distillation
M3 = Discharge to off-site, privately	3SR Solvent extraction
owned wastewater treatment works	4SR Thin-film evaporation
.M4 = Scrubber: a) caustic; b) water;	5SR Filtration
c) other	6SR Phase separation
M5 = Vent to: a) atmosphere; b) flare;	7SR Dessication
c) other (specify)	8SR Other solvent recovery
M6 = Other (specify)	
(3)	Recovery of metals
TREATMENT AND RECYCLING	1MR Activated carbon (for metals
	recovery)
Incineration/thermal treatment	2MR Electrodialysis (for metals
1I Liquid injection	recovery)
2I Rotary or rocking kiln	3MR Electrolytic metal recovery
3I Rotary kiln with a liquid injection	4MR Ion exchange (for metals recovery)
unit	5MR Reverse osmosis (for metals
4I Two stage	recovery)
5I Fixed hearth	6MR Solvent extraction (for metals
6I Multiple hearth	recovery)
7I Fluidized bed	7MR Ultrafiltration (for metals
8I Infrared	recovery)
9I Fume/vapor	8MR Other metals recovery
10I Pyrolytic destructor	•
11I Other incineration/thermal	Wastewater Treatment
treatment	After each wastewater treatment type.
	listed below (1WT - 66WT) specify
Reuse as fuel	 a) tank; or b) surface impoundment
1RF Cement kiln	(i.e., 63WTa)
2RF Aggregate kiln	
3RF Asphalt kiln	Equalization
4RF Other kiln	1WT Equalization
5RF Blast furnace	• • • • • • • • • • • • • • • • • • • •
6RF Sulfur recovery furnace	Cyanide oxidation
7RF Smelting, melting, or refining	2VT Alkaline chlorination
furnace	3WT Ozone
8RF Coke oven	4WT Electrochemical
9RF Other industrial furnace	SWT Other cyanide oxidation
10RF Industrial boiler	•
11RF Utility boiler	General oxidation (including
12RF Process heater	disinfection)
13RF Other reuse as fuel unit	6WT Chlorination
	7WT Ozonation
Fuel Blending	8WT UV radiation
1FB Fuel blending	9WT Other general oxidation
	7 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 ·
Solidification	Chemical precipitation ¹
1S Cement or cement/silicate processes	10VT Lime
2S Pozzolanic processes	11WT Sodium hydroxide
35 Asphaltic processes	12WT Soda ash
4S Thermoplastic techniques	13WT Sulfide
5S Organic polymer techniques	14WT Other chemical precipitation
6S Jacketing (macro-encapsulation)	Time office procedures
7S Other solidification	Chromium reduction
	15WT Sodium bisulfite
	16WT Sulfur dioxide
	TAMI AGTION ATANIAG

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EXHIBIT 8-2. (continued)

MANAGEMENT METHODS

17WT Ferrous sulfate 18VT Other chromium reduction

chemical precipitation by pH adjustment)

19WT Complexed metals treatment

Other liquid phase separation

50WT Decanting

Emulsion breaking 20VT Thermal 21VT Chemical 22VT Other emulsion breaking

Adsorption 23WT Carbon adsorption 24WT Ion exchange 25WT Resin adsorption 26WT Other adsorption

Stripping 27WT Air stripping 28WT Steam stripping 29WT Other stripping

Evaporation 30VT Thermal 31WT Solar 32WT Vapor recompression 33WT Other evaporation

Filtration 34WT Diatomaceous earth 35WT Sand 36WT Multimedia 37WT Other filtration

Sludge dewatering 38WT Gravity thickening 39VT Vacuum filtration 40VT Pressure filtration (belt, plate and frame, or leaf) 41WT Centrifuge 42WT Other sludge dewatering

Air flotation 43WT Dissolved air flotation 44WT Partial aeration 45VT Air dispersion 46WT Other air flotation

Oil skimming 47VT Gravity separation

48WT Coalescing plate separation 49WT Other oil skimming

51WT Other liquid phase separation

Biological treatment 52WT Activated sludge 53WT Fixed film-trickling filter 54WT Fixed film-rotating contactor 55WT Lagoon or basin, aerated 56VT Lagoon, facultative 57WT Anaerobic 58VT Other biological treatment

59WT Wet air oxidation 60VT Neutralization 61WT Nitrification 62WT Denitrification 63WT Flocculation and/or coagulation 64WT Settling (clarification) 65WT Reverse osmosis 66WT Other wastewater treatment

OTHER WASTE TREATMENT

Other wastewater treatment

1TR Other treatment 2TR Other recovery for reuse

ACCUMULATION

1A Containers Tanks 2A

STORAGE

1ST Container (i.e., barrel, drum) 2ST Tank 3ST Waste pile 4ST Surface impoundment 5ST Other storage

DISPOSAL

Landfill 1D

2D Land treatment

Surface impoundment (to be closed 3D as a landfill)

4D Underground injection well

¹Chemical precipitation is a treatment operation whereby the pH of a waste is adjusted to the range necessary for removal (precipitation) of contaminants. However, if the pH is adjusted solely to achieve a neutral pH. THE OPERATION SHOULD BE CONSIDERED NEUTRALIZATION (60VT).

8.22 CBI	Describe the co (by capacity) i your process bl	ncinerator ock or res	s that are us	sed on-site ent block fl	to burn the roow diagram(s)	esiduals ide			
[_]	Response	Ch	economic eco	Temp	tion of serature	In Cor	Residence Time In Combustion Chamber (seconds)		
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Secondar		
	1								
	2								
	3								
	by circli Yes	ng the app	ropriate resp	onse.	s been submit	•••••	•••••		
(_)	<pre>Incinerator</pre>		Air Po Control	No f	Appli	C C b (Types Emission Avail	s Data		
	3		***		·				
	by circli	ng the app	ropriate resp	onse.	s been submit				
	No	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	2		
~~~~	¹ Use the follow:						TO TO THE ST TO THE ST THE ST THE ST		
	S = Scrubber (: E = Electrosta O = Other (spec	tic precipi	itator	•	nesis)				
[_]	Mark (X) this bo	ox if you a	attach a cont	inuation she	eet.				

SECTION	٥	UORKER	<b>EXPOSURE</b>	,
SELLIUN	7	WULLER	EALCOOKE	

Cene	ral	Inci	7110	+ + i	ons:

Questions 9.03-9.25 apply only to those processes and workers involved in manufacturing or processing the listed substance. Do not include workers involved in residual waste treatment unless they are involved in this treatment process on a regular basis (i.e., exclude maintenance workers, construction workers, etc.).

[ ] Mark (X) this box if you attach a continuation sheet.

#### PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

9.01 Mark (X) the appropriate column to indicate whether your company maintains records on the following data elements for hourly and salaried workers. Specify for each data element the year in which you began maintaining records and the number of years the records for that data element are maintained. (Refer to the instructions for further explanation and an example.)

Data Element	Hourly Workers	Salaried Workers	Data Collection Began	Years Reco
Date of hire	X	X	1952	Indef
Age at hire	X	X	1952	Indef
Work history of individual before employment at your facility	x	X	1952	Indef
Sex ·	·x	X	1952	Indef
Race	<u> </u>	<u> </u>	1961	Indef
Job titles	x	<u> </u>	1952	Indef
Start date for each job title	X	X	1952	Indef
End date for each job title	. X	<u> </u>	1952	Indef
Work area industrial hygiene monitoring data	X	X	1980	Indef
Personal employee monitoring data	·. X	X	1980	Indef
Employee medical history	<u> </u>	<u> </u>	1952	Indef
Employee smoking history	NA	NA	NA	NA
Accident history	X	X	1952	Indef
Retirement date	X	X	1952	Indef
Termination date	X	x	1952	Indef
Vital status of retirees	X	<u> </u>	1952	Indef
Cause of death data	X	X	1952	Indef

	Mark (X	) this	box	if	you	attach	а	continuation	sheet.
· —— ·	•				<b>-</b>				

In accordance with the instructions, complete the following table for each activity in which you engage. CBI d. b. a. c. e. Yearly Total Total **Process Category** Workers Worker-Hours Activity Quantity (kg) Manufacture of the Enclosed listed substance 11 11 Controlled Release 11 11 /1 0pen () " 11 Enclosed On-site use as reactant j 1 ji Controlled Release ji " , , /1 0pen 11 11 1) Enclosed On-site use as nonreactant 11 Controlled Release ji 1)

11

*j* (

11

*j* 1

11

11

1 1

11

"

 $[ \underline{ } ]$  Mark (X) this box if you attach a continuation sheet.

0pen

0pen

**Enclosed** 

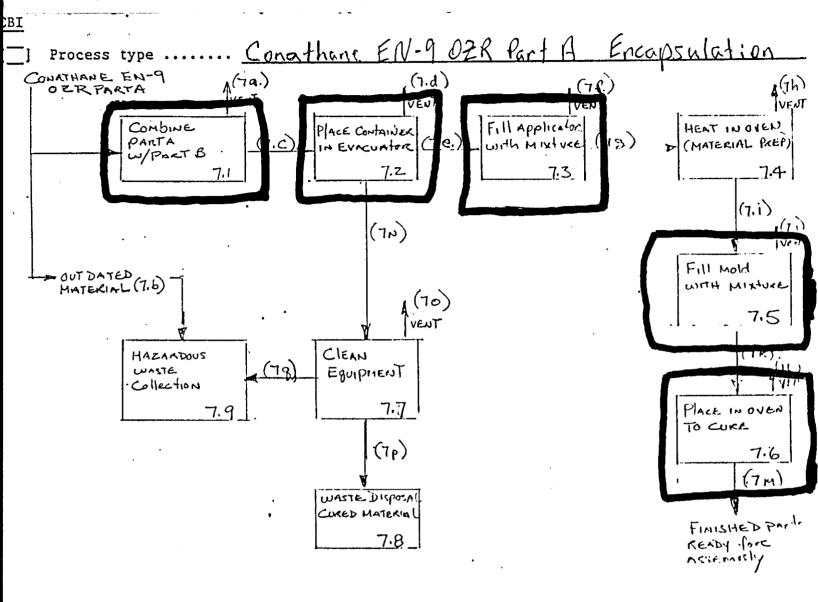
Controlled Release

On-site preparation

of products

encompas listed s	a descriptive job ti sses workers who may substance.	itle for each labor category at your facility that potentially come in contact with or he exposed to the
<u> 31</u>		
_1		
Labor Cat	egory	Descriptive Job Title
A		Assembler
В		
С		
D		
E		
F	<del>- 1 10 10 10</del>	
G	***************************************	
H		
I	•	
J	<del></del>	

9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.



^[] Mark (X) this box if you attach a continuation sheet.

9.05 CBI	may potentially come additional areas not	work area(s) shown in question 9.04 that encompass workers who in contact with or be exposed to the listed substance. Add any shown in the process block flow diagram in question 7.01 or s question and complete it separately for each process type.
<u>1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -</u>	Process type	Conathane EN-9 OZR Part A Encapsulation
r—1	rrocess type	Conathant Livi OLK (ar) 1) Lncapsulation
	Work Area ID	Description of Work Areas and Worker Activities
	1 (7.1)	(7.1) Ventilated workbeach - operator mixes part AlB
	2 (7.2)	(7.2) Ventilated workbeach - operator places mixture into evecuate
	3 (7.3)	(7.3) Ventilated workbench- operator fills applicator with
	4 (7.5)	mixture
•	5 (7.6)	(7.5) Ventilated workbench-operator fills mold with
	6	mixture
	7	(7.6) Curring Oven - operator places unitin
	8	oven to cure
	9	
	10	

[[]__] Mark (X) this box if you attach a continuation sheet.

9.06 CBI	each labor of come in cont	category at you	ble for each work a ur facility that en e exposed to the li y for each process	compasses worke sted substance.	rs who may po Photocopy th	tentially
	•	-	athane EN-9 E			tion
()	Work area		LIMANE EN 10		mapsura	11071
	Labor Category	Number of Workers Exposed	Mode of Exposure (e.g., direct skin contact)	Physical State of Listed Substance	Average Length of Exposure Per Day ²	Number o Days per Year Exposed
	<u> </u>		Inhalation	GU	_A	_NA_
	A		Inhalation	1 _0_	A	NA
				MA whatever the agent of least factors and agent of the a		***************************************
	***************************************					<u> </u>
			<del></del>			
	· ·					
	<del></del>					
	¹ Use the fol	lowing codes of exposure:	to designate the phy	sical state of	the listed su	bstance at
		condensible at		<pre>! = Sludge or sl</pre>		
	GU = Gas (	rature and pre uncondensible	at ambient OI	. = Aqueous liqu . = Organic liqu	ıid	
		erature and pro ides fumes, vap l		. = Immiscible l (specify pha 90% water, l	ses, e.g.,	
			o designate average			
	B = Greater exceedi	ites or less than 15 minut ng 1 hour	es, but not	<ul><li>Greater than exceeding 4 h</li><li>Greater than</li></ul>	ours	
		than one hour ng 2 hours		exceeding 8 h = Greater than		
			7844444	• ************************************		

9.07	Weighted Average (	egory represented in question 9.06 TWA) exposure levels and the 15-min stion and complete it separately fo	nute peak exposure levels.
CBI			
[_]	Process type	Conathane EN-9 OZR R	art A Encapsulation
	Work area		
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m³, other-specify)	15-Minute Peak Exposure Level (ppm, mg/m³, other-specify)
	A	UK	UK
	eng-sings or a second		
	·		
			·
		•	

## PART B WORK PLACE MONITORING PROGRAM

9.08 If you monitor worker exposure to the listed substance, complete the following table <a href="mailto:cBI">CBI</a>

\$						
Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples ¹	Analyzed In-House (Y/N)	Number of Years Records Maintained
Personal breathing zone	NA	NA	NA	A	N	Indef
General work area (air)	NA	NA	<u>NA</u>	<u>A</u>	N	Indef
Wipe samples	NApa	NA pp.	NApp.	NApp.	NApp.	NA pp.
Adhesive patches .	NA pp.	NApp.	NAPP.	NAPP.	NApp	NA PP
Blood samples	ΝΑρρ.	МАрр.	NApp.	NApp.	NApp.	NApp.
Urine samples	<u>ΝΑ ρρ.</u>	ΝΑρρ.	NApp.	NApp.	NAPP	NA _{PP} ,
Respiratory samples	NA pp	NApp	NАрр.	NApp	NApp.	NA pp.
Allergy tests	<u> NAPP</u>	NAPA.	<u> МАРР</u>	NA PP	NAPP	NApp.
Other (specify)						
	NApp.	NA pp	NA _{DP}	NA _P A	NAPP.	NA PP.
Other (specify)	NApp.	NA pp.	NAPA	МАРР	NA PP.	NAPA
Other (specify)	NApp.	MA pp.	NAPP.	NAPP.	MAIDA	NApp.

¹Use the following codes to designate who takes the monitoring samples:

	Mark	(X)	this	box	if	you	attach	a	continuation	sheet.
--	------	-----	------	-----	----	-----	--------	---	--------------	--------

A = Plant industrial hygienist

B = Insurance carrier

C = OSHA consultant

D = Other (specify)

ı—ı	Sample Type		Sampling and Analyt	ical Methodolo	ogy
* .	NA	NA NA	•		
9.10	If you conduct perso	onal and/or ambien	t air monitoring fo	r the listed s	substance,
CDT	specify the following				·
CBI	Panianant Tan 1	Danasian Iinia	· · · · · · · · · · · · · · · · · · ·	Averaging	M 2 2 M 1
[_]	Equipment Type ¹	Detection Limit		Time (hr)	Model Number
	D	0.007A	Gilian		HFS 113A
		-			
			·	······································	**
	1				
	Use the following o		personal air monit	oring equipmen	it types:
	A = Passive dosimet B = Detector tube				
	<pre>C = Charcoal filtra D = Other (specify)</pre>	tion tube with pur	np NIOSH 141	•	
			ambient air monito	ring equipment	t types:
	E = Stationary moni	tors located with	in work area		
	<pre>F = Stationary moni G = Stationary moni</pre>	tors located with	in racility lant boundary		
•	<pre>H = Mobile monitori I = Other (specify)</pre>	ng equipment (spec			
	² Use the following c		detection limit un	its:	·
	A = ppm				
	B = Fibers/cubic ce	ntimeter (f/çc)			
	C = Micrograms/cubi	c meter (u/m²)			

<u>BI</u>	Mark Danadakia	Frequency
	Not Applicable	(weekly, monthly, yearly, etc.)  Not Applicable
	1707 HPPHCABIT	_ wor rippinease
	•	

.12 Describe the en to the listed s process type an BI	ubstance. Ph	trols that you notocopy this q	use to reduce o uestion and comp	r eliminate wor lete it separat	ker exposur ely for eac
] Process type		Conathan	e EN-9 026	R Part A Enco	psulation
Work area			• • • • • • • • • • • • • •	• •	
Engineering Con	trols	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
Ventilation:			·		
Local exhaus	t	<u> </u>	<u> </u>	UK	UK
General dilu	tion	NA	NA	NA	NA
Other (speci	fy)	٠			
Vessel emission	controls	NB	NA	NA	NA
Mechanical load packaging equ		_NA	NA	NA	NA
Other (specify)					·
	<del></del>	-			

 $[\ \ \ ]$  Mark (X) this box if you attach a continuation sheet.

Process type .	Consthane	EN-9 OZR Pac	of A Force	osula f
	ipment or Process Modi	fication		on in Worl Per Year
	UK			ИK
	•			
			<del></del>	
	·			
		•		
			•	

PART	D PERSONAL PROTEC	TIVE AND SAFETY EQUIPMENT	
9.14 CBI	in each work area	in order to reduce or elimina	ipment that your workers wear or use te their exposure to the listed e it separately for each process type
[_]	Process type	Conathane EN-90	ZR Part A Encapsulation
	Work area	•••••••••••	• • • • • • • • • • • • • • • • • • • •
r — 1	Mark (V) this have	Equipment Types Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)	Wear or Use (Y/N)  N  N  N  N  N  N  N  N  N  N  N  N

<u>CBI</u>	Process ty	ype	Jot Af	oplica	ble	
	Work Area	Respirator Type	Average Usage	Fit Tested (Y/N)	Type of Fit Test	Frequency of Fit Tests (per year)
	A = Daily B = Weekl C = Month D = Once E = Other	ly nly a year (specify) following codes to desig			t:	
		his box if you attach a				

PART	E WORK PRACTICES								
9.19 CBI [ ]	Describe all of the work practices and administrative controls used to reduce or eliminate worker exposure to the listed substance (e.g., restrict entrance only to authorized workers, mark areas with warning signs, insure worker detection and monitoring practices, provide worker training programs, etc.). Photocopy this question and complete it separately for each process type and work area.								
t J	Process type Conathane EN-9 OZR Part A Encapsulation								
	Work area			• •					
	All emdove	es are i	trained	in the	use of				
	Chemicals (	is pact	of our	Com	Oliance.				
	All employe Chemicals a with OS	HA I	910-120	<b>SS</b>					
	Process type Cona.  Work area		OR Parti	4 Encaps	More Than 4				
	Housekeeping Tasks	Once Per Day	Per Day	Per Day	Times Per Day				
	Sweeping	<u>uk</u>							
	Vacuuming	_UK		-					
	Water flushing of floors	<u>uk</u>		***************************************					
	Other (specify)								
		-			4,				
[-]	Mark (X) this box if you a	ttach a continua	tion sheet.						

9.21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
	Routine exposure Respons Not Required for TDI
	Yes
	No
	Emergency exposure
	Yes
	No
	If yes, where are copies of the plan maintained?
	Routine exposure:
	Emergency exposure:
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	(Yes)
	No
	If yes, where are copies of the plan maintained? Environmental Affairs Office
	Has this plan been coordinated with state or local government response organizations Circle the appropriate response.
	Yes
	(No)(
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.  Response Not Required for TOI
	Plant safety specialist
	Insurance carrier
	OSHA consultant
	Other (specify)
[_]	Mark (X) this box if you attach a continuation sheet.

#### SECTION 10 ENVIRONMENTAL RELEASE

#### General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and thus, does not have an RQ, then report releases that exceed 2.270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

10.01	Where is your facility located? Circle all appropriate responses.	
CBI		
[_]	Industrial area	1
	Urban area	2
	Residential area	3
	Agricultural area	4
	Rural area	5
	Adjacent to a park or a recreational area	6
	Within 1 mile of a navigable waterway	7
	Within 1 mile of a school, university, hospital, or nursing home facility)	8
	Within 1 mile of a non-navigable waterway	9
	Other (specify)1	0

10.02	is located) in terms of latitude and longitude or Universal Transverse Mercader (UTM) coordinates.						
	Latitude		42.51	Q'_15_			
	Longitude		71. 2	6,30			
	UTM coordinates Zo	one, Northin	g, Eas	sting			
10.03	If you monitor meteorological of the following information.	onditions in the vicinit	y of your facil	lity, provide			
	Average annual precipitation	•••••	UK	inches/year			
	Predominant wind direction		UK				
10.04	Indicate the depth to groundwat	•	UK	meters			
10.05 CBI	For each on-site activity liste listed substance to the environ Y, N, and NA.)						
[_]	On Site Astinitus		onmental Releas	· <del>·</del>			
	On-Site Activity	Air	Water	Land			
	Manufacturing	<u> </u>	NA	NA			
	Importing			<u> NH</u>			
	Processing	<u> </u>	$\mathcal{N}_{\mathcal{N}}$	$\mathcal{N}$			
	Otherwise used	-nA	NB	NA			
	Product or residual storage	$\underline{NA}$	NA	NA			
	Disposal	NA.	NA	NA			
	Transport	NB	NA	NA			
[_]	Mark (X) this box if you attach	a continuation sheet.					

	an example.)		
]	Quantity discharged to the air	5	kg/yr ±
	Quantity discharged in wastewaters Not Apple	cable	kg/yr ± _
	Quantity managed as other waste in on-site treatment, storage, or disposal units	7	kg/yr'±
	Quantity managed as other waste in off-site treatment, storage, or disposal units		kg/yr <u>+</u>
			•
	•		

10.08 CBI	Describe the control technologies used to minimize release of the listed substance for each process stream containing the listed substance as identified in your process block or residual treatment block flow diagram(s). Photocopy this questio and complete it separately for each process type.					
[_]	Process type	Conathane EN-9 DER Part A	Encapsulation			
			Percent Efficiency			
	Stream ID Code	Control Technology	rettent Efficiency			
	7a	None	NA			
	7 d	None	NA			
	7.4	None	NA			
	7 <i>h</i>	None	MA			
	75	None	NA			
	7L	None	NA			
	70	None	NA			
		•				
		•				

 $^[\ \ ]$  Mark (X) this box if you attach a continuation sheet.

PART B RE	LEASE TO AIR	
CBI res: sour	stance in terms of a Stre idual treatment block flo rce. Do not include raw rces (e.g., equipment lea each process type.	entify each emission point source containing the listed am ID Code as identified in your process block or w diagram(s), and provide a description of each point material and product storage vents, or fugitive emissions. Photocopy this question and complete it separately
Pro	cess type Conat	hane EN-902R Part A Encapsulation
	t Source D Code	Description of Emission Point Source
	7a	Material Mix Station Vent
	7d	Evacuator Station Vent
	7f	Applicator Station Vent
<del></del>	<u>7h_</u>	Oven Vent (material Press)
	75	Molding Station Vent
	76	Oven Vent (curcing)
	70	Equipment Cleaning Vent
· <del></del>		
<del></del>		

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] So	int urce ID ode	Physical State	Average Emissions (kg/day)	Frequency ² (days/yr)	Duration ³ (min/day)	Average Emission Factor	Maximum Emission Rate (kg/min)	Maximm Emission Rate Frequency (events/yr)	Maximu Emissi Rate Durati (min/ev
	74	_G_	_UK	45	UK	UK	UK	015	41
	7d	<u>G</u>	-U15	UK	415	415	415	UK	
-	7£	<u>G</u>	45	UK	415	415	115	UR	11
_	1h	<u>G</u>	415	415	45	UIS	45	UK	U
 	2 <u>J</u>	<u>G</u>	UK	UK	UK	45	US	45	0
	71	G	45	UK	UB	UK	45	UK	U
	10	<u> </u>	UK	UK	UB	415	UB	UK	U
		<del></del>							
	<del></del>								

²Frequency of emission at any level of emission

³Duration of emission at any level of emission

 $^{^4}$ Average Emission Factor — Provide estimated ( $\pm$  25 percent) emission factor (kg of emission per kg of production of listed substance)

10.11 Stack Parameters -- Identify the stack parameters for each Point Source ID Code identified in question 10.09 by completing the following table.

CBI

_1	Point Source ID Code	Stack Height(m)	Stack Inner Diameter (at outlet) (m)	Exhaust Temperature (°C)	Emission Exit Velocity _(m/sec)	Building <u>Height(m)</u> ¹	Building Width(m) ²	Vent Type ³
	<u>7</u> a_	NA	NA	NA	NA	NA	NH	NA
	7d	NA	NA	NA	NA	NA	NA	NA
	<u>7</u> F	NA	NA	NA	NA	NA	NA	NA
	7h	NA	NA_	NA	NA	NA	NA	NA
	75	NA	NA	NA	NA	NA	NA	NA
	<u> 7L</u>	NA	NA	NA	NA	NA	NA	NA
	70	NA	NA	NA	NA	NA	NA	NA
,	***************************************	<u> </u>						
						***************************************		

¹Height of attached or adjacent building

H = Horizontal

V = Vertical

²Width of attached or adjacent building

³Use the following codes to designate vent type:

.12	If the listed substance is emitted in particulate form, indicate the particle distribution for each Point Source ID Code identified in question 10.09. Photocopy this question and complete it separately for each emission point sou								
<u>I</u>	Point source ID code	Not Applicable							
	Size Range (microns)	Mass Fraction ( $\% \pm \%$ precision)							
	< 1								
	≥ 1 to < 10								
	≥ 10 to < 30								
	≥ 30 to < 50								
	≥ 50 to < 100								
	≥ 100 to < 500								
	≥ 500								
		Total = 100%							

[__] Mark (X) this box if you attach a continuation sheet.

10.13	Equipment Leaks Complet types listed which are exp according to the specified the component. Do this for residual treatment block for not exposed to the listed process, give an overall p	oosed to the land weight percestrated from the land series of the land	isted suent of the stype id. Do not this is	bstance a e listed dentified ot includ s a batch	nd which substance in your e equipme or inter	are in se passing process b nt types mittently	rvice through lock or that are operated			
CBI	exposed to the listed subs for each process type.	tance. Photo	copy this	s question	n and com	plete it	separatel			
	Process type	110+	$Q \propto$	1,	1 /					
[_]						<u>.</u> .				
	Percentage of time per year that the listed substance is exposed to this process type									
	••••	Number	of Compor	nents in S	Service by se in Pro	y Weight				
	Equipment Type	than 5%	5-10%	11-25%	26-75%	76-99%	than 99			
	Pump seals ¹									
	Packed									
	Mechanical +									
	Double mechanical ²									
	Compressor seals ¹									
	Flanges									
	Valves		· · · · · ·							
	Gas ³									
	Liquid									
	Pressure relief devices ⁴ (Gas or vapor only)		eretalismost tradición de la constante de la c							
•	Sample connections									
	Gas									
	Liquid									
	Open-ended lines ⁵ (e.g., purge, vent)									
	Gas		·							
	Liquid									
	¹ List the number of pump ar compressors	nd compressor	seals, r	ather tha	n the num	ber of pu	imps or			
10.13	continued on next page									

will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively  3 Conditions existing in the valve during normal operation  4 Report all pressure relief devices in service, including those equipped with control devices  5 Lines closed during normal operation that would be used during maintenance operations  10.14 Pressure Relief Devices with Controls Complete the following table for those pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c.  10.14 Pressure Relief Devices with Controls Complete the following table for those pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c.  10.15 Pressure Relief Devices with Controls Complete the following table for those pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c.  11.	10.13	(continued)									
*Report all pressure relief devices in service, including those equipped with control devices  *Lines closed during normal operation that would be used during maintenance operations  10.14 Pressure Relief Devices with Controls — Complete the following table for those pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c.  **Aumber of Percent Chemical in Vessel** Control Device Control Efficiency in Vessel** Control Device Control Efficiency Control Efficiency Control Efficiency Control Efficiency Control Efficiency Control Efficiency Control Cont		greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate									
in Vessel  Trefer to the table in question 10.13 and record the percent range given under the heading entitled "Number of Components in Service by Weight Percent of Listed Substance" (e.g., (5%, 5-10%, 11-25%, etc.)  The EPA assigns a control efficiency of 98 percent for emissions routed to a flare under normal operating conditions		³ Conditions existing in the valve during normal operation									
operations  10.14 Pressure Relief Devices with Controls Complete the following table for those pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c.											
pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c.  a.  Number of Percent Chemical Estimated Control Device Control Efficiency  in Vessel Control Device Control Efficiency  **Refer to the table in question 10.13 and record the percent range given under the heading entitled "Number of Components in Service by Weight Percent of Listed Substance" (e.g., CS%, 5-10%, 11-25%, etc.)  **The EPA assigns a control efficiency of 100 percent for equipment leaks controlled with rupture discs under normal operating conditions. The EPA assigns a control efficiency of 98 percent for emissions routed to a flare under normal operating conditions.		⁵ Lines closed during normal operation that would be used during maintenance operations									
efficiency of 98 percent for emissions routed to a flare under normal operating conditions	<u>CBI</u>	pressure relief devices identified in 10.13 to indicate which pressure relief devices in service are controlled. If a pressure relief device is not controlled, enter "None" under column c.  a.  Number of Percent Chemical Estimated Control Device Control Efficiency?  Percent Chemical Control Device Control Efficiency?									
[_] Mark (X) this box if you attach a continuation sheet.		with rupture discs under normal operating conditions. The EPA assigns a control efficiency of 98 percent for emissions routed to a flare under normal operating									
	[_]	Mark (X) this box if you attach a continuation sheet.									

10.15	place, complete the	following table re	mal leak detection and repair program is in regarding those leak detection and repair and complete it separately for each process					
CBI	-VF		Not	A01	plicat	56		
[_]	Process type	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		711000			
	Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source	Detection Device	of Leak Detection	Repairs Initiated (days after detection)	(days afte		
	Pump seals Packed Mechanical Double mechanical Compressor seals Flanges Valves Gas Liquid Pressure relief devices (gas or vapor only) Sample connections Gas Liquid Open-ended lines Gas Liquid							
	¹Use the following co  POVA = Portable orgo  FPM = Fixed point mo  O = Other (specify)	anic vapor analyze	r					

					Vessel	NO Vessel	Vessel	. o •	ing	5 6 9	_			
''	Vessel Type		Composition of Stored Materials	Throughput (liters per year)	Filling Rate	Filling	Inner Diameter		Vessel Volume	Vessel Emission Controls	Flow	Diameter	Control Efficiency (%)	Basis for Estimat
		<del></del>			<u> </u>				<del></del>					
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-		***************************************			-								-	•
						-	***************************************						-	-
					·		•							
	1	. <b></b> .			₋ -									
			ing codes to	designate ve	essel typ	e:			_		<del></del>	te floatii	ng roof seal	s:
		= Fixed ro = Contact	oof internal flo	nating roof						shoe, pri ed seconda				
	NCIF	= Nonconta	act internal	floating roo	of		MS2	R = Rin	-mounte	d, seconda	ry		ě	
			l floating ro e vessel (inc		re ratin	g)	LM1 LM2			nted resil d shield	ient fi	lled seal	, primary	
	H	= Horizon	tal	•		0,			ther sh				•	
	ប	= Undergro	ound				VM2	= Rin		ted resili d secondar ield		led seal,	primary	
	³ Indic	ate weigh	t percent of	the listed s	substance	. Includ	e the tota	l volat	ile org	anic conte	nt in p	arenthesi:	s	
	_		ating roofs											
	5Gas/v	apor flow	rate the em	ission contr	ol device	was desi	gned to ha	ndle (s	specify	flow rate	units)			
	⁶ Use t	he follow	ing codes to	designate b	asis for	estimate (	of control	effici	ency:					
	C = 0	alculation												

maka	77	MON	DAIMITAID	DELEVER
PAKT	Е	NUN-	-KOULTNE	RELEASES

Not Applicable

10.23	Indicate the date and time when the release occurred and when the release ce	ased or
	was stopped. If there were more than six releases, attach a continuation sh	eet and
	list all releases.	

Release	Date Started	Time (am/pm)	Date Stopped	Time (am/pm)
1				
2				
3				
4	-			
5		***		
6				

10.24 Specify the weather conditions at the time of each release.

$R_{4}$	S PONSC	not	required	to 1 1	١ ,
Release	Wind Speed (km/hr)	Wind Direction	requirect Humidity (%)	Temperature (°C)	Precipitation (Y/N)
<u>· 1</u>	-				
2			***************************************		
3			<del></del>		
4	***************************************				
5					
6					very control of the second

[_] Mark (X) this box if you attach a continuation sheet.